

REMARKS

Applicants have now had an opportunity to carefully consider the Examiner's comments set forth in the non-final Office Action of September 25, 2007. Reconsideration of the Application is requested.

Claims 1-5, 7, 9-12, 14-25, and 28-29 are pending in the application.

Claims 1, 7, 9, 11, 14-20, 22-24, and 28 are amended.

Claims 6, 8, 13, and 26-27 are cancelled, without prejudice.

The Office Action

Claims 9, 10, 14, 15, and 20-21 were objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form.

Claims 1, 2, 6, 7, 28, and 29 were rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 5,552,671 to Parham, et al.

Claims 3 and 4 were rejected under 35 U.S.C. §103(a) as being unpatentable over Parham, et al., in view of U.S. Patent No. 5,059,865 to Bergman.

Claim 5 was rejected under 35 U.S.C. §103(a) as being unpatentable over Parham, et al., in view of U.S. Patent No. 5,214,345 to Saito, et al.

Claim 11 was rejected under 35 U.S.C. §103(a) as being unpatentable over Parham, et al., in view of U.S. Patent No. 7,221,374 to Dixon.

Claim 12 was rejected under 35 U.S.C. §103(a) as being unpatentable over Parham, et al., in view of Dixon, and further in view of Bergman.

Claims 8, 13, and 16-19 were rejected under 35 U.S.C. §103(a) as being unpatentable over Parham, et al., in view of U.S. Patent No. 6,611,082 to McGuire.

Claims 22-25 were rejected under 35 U.S.C. §103(a) as being unpatentable over Parham, et al., in view of McGuire, and further in view of U.S. Patent No. 5,138,219 to Krisl, et al.

For the reasons outlined below, it is submitted that the claims are in condition for allowance.

Claim 1 has been amended to incorporate subject matter of allowable claim 20 and original claim 25. In particular, claim 1 recites that the coating is optimized to reflect at least 95% of UV radiation from 300-370 nm striking the coating. The angle at which the coating is optimized is within about 10° of a mean angle at which UV light strikes the arctube wall.

As acknowledged by the Examiner, Parham does not suggest selecting the angle to be within 10° of the mean angle.

Accordingly, it is submitted that claim 1, and claims 2-5, 7, 15, and 28-29, dependent therefrom, distinguish over the references of record.

Claim 9, which was considered to contain allowable subject matter has been placed in independent form and now recites a method which includes determining a mean angle at which UV light strikes an arctube and disposing a multilayer coating on a surface of the arctube, the multi-layer coating being optimized with a computer program which optimizes the coating for a selected angle to the arctube wall. The angle at which the coating is optimized is selected to be within about 10° of the mean angle to take into account off-normal incidence of the radiation on the arctube during operation of the lamp.

As acknowledged by the Examiner, the references do not suggest selecting the angle to be within 10° of the mean angle, as claimed.

Accordingly, it is submitted that claim 9, and claim 10 dependent therefrom, distinguish over the references of record.

Claim 11 has been amended to incorporate subject matter of allowable claim 20 and now recites a method for improving the efficiency of a metal halide lamp. The method includes disposing a multilayer coating on a surface of an arctube of the lamp, the multi-layer coating being optimized at an angle which is within about 10° of a mean angle at which UV light strikes the arctube wall.

As acknowledged by the Examiner, neither Parham nor Dixon suggests selecting the angle to be within 10° of the mean angle.

Accordingly, it is submitted that claim 11, and claim 12 dependent therefrom, distinguish over the references of record.

Claim 20, which was considered to contain allowable subject matter, has been placed in independent form. Claim 20 recites a method of improving the efficacy of a metal halide lamp, the multi-layer coating being optimized by a computer program at an angle which is selected to take into account off-normal incidence of the radiation on the arctube during operation of the lamp, the angle at which the coating is optimized being within about 10° of a mean angle at which UV light strikes the arctube wall.

As acknowledged by the Examiner, the references do not disclose or suggest a multi-layer coating optimized by a computer program at an angle which is selected to take into account off-normal incidence of the radiation on the arctube during operation of the lamp, the angle at which the coating is optimized being within about 10° of a mean angle

at which UV light strikes the arctube wall.

Accordingly, it is submitted that claim 20, and claims 14, 16-19, and 21-25 dependent therefrom, distinguish over the references of record.

CONCLUSION

For the reasons detailed above, it is respectfully submitted all claims remaining in the application (Claims 1-5, 7, 9-12, 14-25, and 28-29) are now in condition for allowance.

No additional fee is believed to be required for this Amendment C. However, the undersigned attorney of record hereby authorizes the charging of any necessary fees, other than the issue fee, to Deposit Account No. 06-0308.

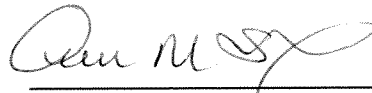
In the event the Examiner considers personal contact advantageous to the disposition of this case, he/she is hereby authorized to call the undersigned, at Telephone Number (216) 861-5582.

Respectfully submitted,

FAY SHARPE LLP

November 7, 2007

Date



Ann M. Skerry, Reg. No. 45,655
1100 Superior Avenue, 7th Floor
Cleveland, OH 44114-2579
216-861-5582